Product datasheet

Anti-NDRG1 antibody ab37897

Overview

Product name          Anti-NDRG1 antibody
Description           Goat polyclonal to NDRG1
Host species          Goat
Tested applications   Suitable for: WB, ELISA, IHC-P
Species reactivity    Reacts with: Human
                       Predicted to work with: Mouse, Rat, Dog
Immunogen             Synthetic peptide: GNSAGPKSMEVSC, corresponding to C terminal amino acids 382-394 of Human NDRG1
Positive control      Recombinant human NDRG1 protein (ab87685) can be used as a positive control in WB.

Properties

Form                  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer        Preservative: 0.02% Sodium Azide
                       Constituents: 0.5% BSA, Tris saline. pH 7.3
Purity                Immunogen affinity purified
Purification notes    Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality             Polyclonal
Isotype               IgG

Applications

Our Abpromise guarantee covers the use of ab37897 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
May have a growth inhibitory role.

**Tissue specificity**
Ubiquitous; expressed most prominently in placental membranes and prostate, kidney, small intestine, and ovary tissues. Reduced expression in adenocarcinomas compared to normal tissues. In colon, prostate and placental membranes, the cells that border the lumen show the highest expression.

**Involvement in disease**
Defects in NDRG1 are the cause of Charcot-Marie-Tooth disease type 4D (CMT4D) [MIM:601455]; also known as hereditary motor and sensory neuropathy Lom type (HMSNL). CMT4D is a recessive form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy and primary peripheral axonal neuropathy. Demyelinating CMT neuropathies are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. By convention, autosomal recessive forms of demyelinating Charcot-Marie-Tooth disease are designated CMT4.

**Sequence similarities**
Belongs to the NDRG family.

**Cellular localization**
Cytoplasm. Nucleus. Cell membrane. Whereas in prostate epithelium and placental chorion it is located in both the cytoplasm and the nucleus, nuclear staining is not observed in colon epithelium cells. Instead its localization changes from the cytoplasm to the plasma membrane during differentiation of colon carcinoma cell lines in vitro.

**Images**

- Anti-NDRG1 antibody (ab37897) at 0.1 µg/ml + Human Kidney lysate (RIPA buffer, 35µg total protein per lane).
  
  **Predicted band size:** 43 kDa
  **Observed band size:** 48 kDa
  
  *why is the actual band size different from the predicted?*

  Primary incubated for 1 hour. Detected by western blot using chemiluminescence. A minor band of unknown identity was also
consistently observed at 20kDa. This band was successfully blocked by incubation with the immunising peptide.

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